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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 6

**Complete if Known**

Application Number	10/651,188
Filing Date	August 28, 2003
First Named Inventor	Ronald L. Mahany
Group Art Unit	2666 2616
Examiner Name	Dang T. Ton- A. B. Lu
Attorney Docket Number	14426US02

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
m	A1	2,942,072	06-21-1960	Cunningham	
	A2	3,586,977	06-22-1971	Lustig	
	A3	3,826,900	07-30-1974	Moellering	
	A4	3,876,863	04-08-1975	Boone	
	A5	3,908,088	09-23-1975	Gutleber	
	A6	4,004,098	01-18-1977	Shimasaki	
	A7	4,004,225	01-18-1977	Ganssmantel	
	A8	4,025,734	05-24-1977	Aloupis	
	A9	4,054,753	10-18-1977	Kaul et al.	
	A10	4,116,237	09-26-1978	Birch	
	A11	4,251,865	02-17-1981	Moore et al.	
	A12	4,301,530	11-17-1981	Gutleber	
	A13	4,367,378	01-04-1983	Jordan	
	A14	4,415,065	11-15-1983	Sandstedt	
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	A16	4,460,120	07-17-1984	Shepard et al.	
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	A19	4,539,706	09-03-1985	Mears et al.	
	A20	4,549,264	10-22-1985	Carroll et al.	
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	A22	4,553,262	11-12-1985	Coe	
	A23	4,606,044	08-12-1986	Kudo	
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	A25	4,672,658	06-09-1987	Kavehrad et al.	
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	A33	4,850,006	07-18-1989	Sasaki et al.	

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Sheet 2 Of 6

**Complete if Known**

Application Number	10/651,188
Filing Date	August 28, 2003
First Named Inventor	Ronald L. Mahany
Group Art Unit	2666-2/c
Examiner Name	Dang T. Ton A. 21-1
Attorney Docket Number	14426US02

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A34	4,857,716	08-15-1989	Gombrich et al.	
	A35	4,906,989	03-06-1990	Kasugai	
	A36	4,916,441	04-10-1990	Gombrich	
	A37	4,924,461	05-08-1990	Amamiya et al.	
	A38	4,945,532	07-31-1990	Hald	
	A39	4,955,038	09-04-1990	Lee et al.	
	A40	4,972,456	11-20-1990	Kaczmarek et al.	
	A41	5,006,699	04-09-1991	Felkner et al.	
	A42	5,006,986	04-09-1991	Nakamura et al.	
	A43	5,007,050	04-09-1991	Kasparian et al.	
	A44	5,008,953	04-16-1991	Dahlin et al.	
	A45	5,020,135	05-28-1991	Kasparian et al.	
	A46	5,023,824	06-11-1991	Chadima, Jr. et al.	
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	A52	5,044,010	08-27-1991	Frenkiel et al.	
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	A57	5,157,187	10-20-1992	Le et al.	
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	A62	5,208,449	05-04-1993	Eastman et al.	
	A63	5,218,187	06-08-1993	Koenck et al.	
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	A69	5,272,324	12-21-1993	Blevins	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 3 Of 6

**Complete If Known**

Application Number	10/651,188
Filing Date	August 28, 2003
First Named Inventor	Ronald L. Mahany
Group Art Unit	2686 2.16
Examiner Name	Dang T. Ton R. Patel
Attorney Docket Number	14426US02

**U.S. PATENT DOCUMENTS**

Examiner Initial*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
m	A70	5,276,686	01-04-1994	Ito	
	A71	5,276,918	01-04-1994	Cornforth et al.	
	A72	5,289,378	02-22-1994	Miller et al.	
	A73	5,295,154	03-15-1994	Meier et al.	
	A74	5,335,356	08-02-1994	Anderson	
	A75	5,339,316	08-16-1994	Diepstraten	
	A76	5,349,678	09-20-1994	Morris	
	A77	5,375,163	12-20-1994	Kamimot et al.	
	A78	5,389,917	02-14-1995	LaManna	
	A79	5,404,577	04-04-1995	Zuckerman	
	A80	5,422,934	06-06-1995	Massa	
	A81	5,602,854	02-11-1997	Luse et al.	
	A82	5,657,317	08-12-1997	Mahany et al.	
	A83	5,748,619	05-05-1998	Meier	
	A84	5,797,099	08-18-1998	Elzak et al.	
	A85	6,006,100	12-21-1999	Koenck et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
m	B1	AU 632055	12-17-1992	Mahany et al.		
	B2	AU B-83262/91 (641541B2)	08-03-1989	Mahany et al.		
	B3	AU A-80350/91	01-16-1992	Zuckerman et al.		
	B4	AU B-80350/91	01-16-1992	Zuckerman et al.		
	B5	BE 1002234	10-30-1990	Schultz et al.		X
	B6	CA 1,316,218	04-13-1993	Mahany et al.		
	B7	CA 2,045,241	01-14-1992	Zuckerman et al.		
	B8	EP 0 280 543 A2	08-31-1988	Kasugal		
	B9	EP 0 465 971 A2	01-15-1992	Zuckerman et al.		
	B10	ES 2 014 740	07-16-1990	Schultz et al.		X
	B11	GB 2 196 766 A	05-1988	Pitayanukul et al.		
	B12	GB 2 221 426 A	02-17-1993	Mahany et al.		
	B13	GB 2 223 914 A	04-18-1990	Mahany et al.		
	B14	GB 2 223 914 B	11-18-1992	Mahany et al.		
	B15	IT 1230308	10-18-1991	Schultz et al.		X

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				Application Number	10/651,188
Sheet	4	Of	6	Filing Date	August 28, 2003
				First Named Inventor	Ronald L. Mahany
				Group Art Unit	2666 1616
				Examiner Name	Qiang T. Ton A. <i>Q. Ton</i>
				Attorney Docket Number	14426US02

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> -Number <sup>3</sup> -Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
<i>m</i>	B16	JP 61-196364	08-1986	Takeshi		
	B17	JP 63-27969	02-1988	Ohkawara et al.		
	B18	MX PA/a/1991/000168	07-11-1991	Zuckerman et al.		
	B19	PCT WO88/08649	11-1988	MacNak et al.		
	B20	PCT WO92/02084	02-06-1992	Koenck et al.		
	B21	PCT WO94/15413	07-07-1994	Mahany et al.		

OTHER ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
<i>m</i>	C1	Respondent Qualcomm Incorporated's Notice Of Prior Art, with Exhibit B attached thereto
	C2	Qualcomm's Response To Interrogatory 3, with Exhibit A attached thereto
	C3	SCHMID, "Lunar Far-Side Communication Satellites", Goddard Space Flight Center, NASA TN D-4509, 06/12/1968, pp. 1-19
	C4	BARR, "Apollo Communications Configuration Handbook", NASA Manned Space Flight System, EB69-3701, 02/24/1969
	C5	CONSTANTINO, "Mobile Communication-Channel Modelling", British Telecommunications Engineering, 08/1990, Vol. 9, pp. 84-85
	C7	DAVEY, "Data Preparation And Transmission In The Royal Air force Integrated Supply System", The Computer Journal, 01/1964, Vol. 6, pp. 219-222
	C8	DAVIS, "Man-In-Space Communications Subsystem", The LEM Program At RCA – Twelve Technical Papers By RCA Scientists And Engineers, 1966, pp. 21-29
	C9	LEUNG, "Diversity Interconnection Of Wireless Terminals To Local Area Networks Via Radio Bridges", Electronics Letters, 02/27/1992, Vol. 28, No. 5, pp. 489-490
	C10	LEUNG, "Internetworking Wireless Terminals To Local Area Networks Via Radio Bridges", IWC 1992, IEEE, 1992, pp. 126-129
	C11	LINDSEY, "Lunar Surface Transmission Loss For The Apollo Astronaut", NASA Technical Note, NASA TN D-4915, 12/1968, pp. 1-25
	C12	MURPHY, Interactions Between Terminal Mobility And Personal Mobility, 2 <sup>nd</sup> International Conference On Universal Personal Communications – Conference Record Volume I, IEEE, 1993, pp. 198-201
	C15	Proceedings Of The Apollo Unified S-Band Technical Conference, Goddard Space Flight Center/NASA, 07/14-15/1965, pp. 1-302

EXAMINER <i>ADT PATL</i>	DATE CONSIDERED <i>11/15/08</i>
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				Group Art Unit	2666 L & L
				Examiner Name	Dang T. Ten A. Patel
				Attorney Docket Number	14426US02
Sheet	5	Of	6		

OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
g	C16	RUBIN, "Performance Of Double-Tier Access-Control Schemes Using A Polling Backbone For Metropolitan And Interconnected Communication Networks", IEEE Journal On Selected Areas In Communications, 1993, Vol. SAC-5, No. 9, pp. 34-39
	C17	SANDERSON, "Watch - A Low-Cost, Secure-Item Monitoring System", 1987, pp. 310-315
	C19	SCHILIT, "The PARCTAB Mobile Computing System", 1993 IEEE, 1993, pp. 34-39
	C21	"GE Mobile Radio MASTR <sup>®</sup> Executive II Vehicular Repeater Maintenance Manual LBI 32572A, Two-Way FM Radio Vehicular Repeater", General Electric, 1974-1975, pp. 1-12
	C22	"RCA & Apollo 15", RCA Government Engineering, Thirteen Technical Papers By RCA Engineers And Scientists, RCA Government Engineering, 1972, pp. 24-25
	C23	"RCA 'Radar Eyes,' Advanced Electronics To Help Apollo 11 Astronauts Land On Moon", RCA News, Special Apollo Edition, 07/1969
	C24	"Special Report: Communications On The Moon", Electronics World, 08/1969, pp. 23-25 and 56-67
	C25	Trucking Firm Uses Mobile-Radio Data Terminals To Communicate between Drivers And Dispatchers, Communications News, 08/1968, Vol. 23, No. 8, p. 39(1)
	C26	GOODMAN, "Wireless Personal Communication Systems", 1997
	C27	Press Information: Space Shuttle Transportation System, Rockwell International, 08/1981, pp. 1-463, esp. Ch. 17
	C29	IEEE Standard Dictionary of Electrical & Electronics Terms - 3 <sup>rd</sup> Edition, pp. 539, 847, 08/10/1984
	C30	IEEE Standard Dictionary of Electrical & Electronics Terms - 5 <sup>th</sup> Edition, pp. 779, 780, 1234, 1235
	C36	Specifications of the Bluetooth System, CORE, Specification Vol. 1, Version 1.1, 02/22/2001
	C39	Profile Test Specification, Test Suite Structure (TS) and Test Purposes (TP) for Hands-Free Profile
	C43	Order #1, Protective Order, 06/21/2005
	C44	Newton's Telecom Dictionary, 1993
	C54	DARLING, "Real-Time Mobile RF Terminals Boost Inventory Efficiency", Pulp & Paper, 04/1990, pp. 188-190
	C55	O'BRIEN, The Invaluable "Walkie-Talkie": Is The Portable Unit An Underestimated Asset For Fire Service Communications?, Fire Engineering, 11/1956, pp. 1060-1062
	C56	OLSEN et al., "Apollo Experience Report: Command And Service Module Controls And Displays Subsystem", NAS 1.14:D-8301, 1979, pp. 1-21

EXAMINER	AST PATR	DATE CONSIDERED	11/1/03
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				Application Number	10/651,188	
Sheet		6	Of	6	Filing Date	August 28, 2003
					First Named Inventor	Ronald L. Mahany
					Group Art Unit	2668 <i>216</i>
					Examiner Name	Dang T. Ton <i>A. B. L.</i>
					Attorney Docket Number	14426US02

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<i>sm</i>	C57	SCARINGE, Real-Time Data Collection Via Mobile Wireless Computer Terminals, Advance Manufacturing Systems: Proceedings Of The AMS '86 Exposition And Conference, 06/24/1986-06/26/1986, pp. 745-749

EXAMINER <i>ADT PATL</i>	DATE CONSIDERED <i>11/1/06</i>
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